Use Attainability Analysis

for

WBID 0442 Hickory Creek

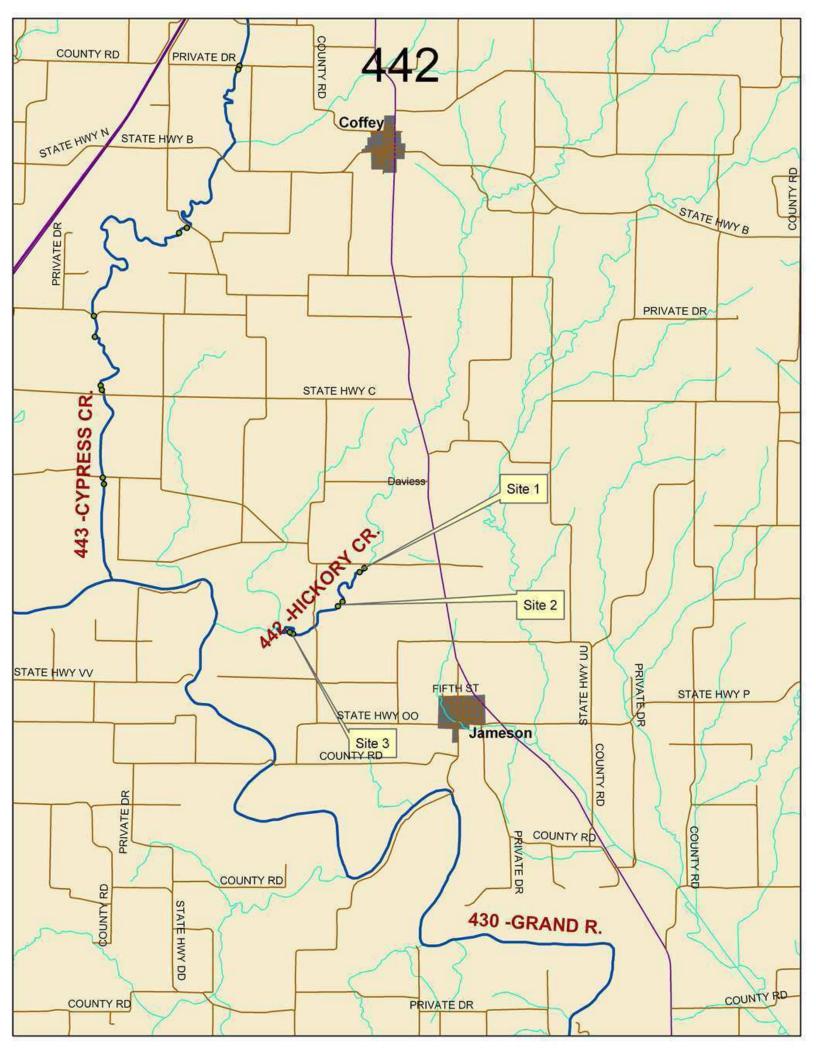
Submitted by SES Inc.

to Missouri Department of Natural Resources Water Protection Program

Date received: November 14, 2007

Data Sheet A - Water Body Identification

ing surveyed	l)	
Hickory Cre	eek	
442		
County:	Daviess	
T62N	R27W	Sec 18
T60N	R28W	Sec 8
downstream	:	
o the water b	ody ooginoi	,
Telephon	e Number:	9133070054
, checked a	ll applicabl	e boxes, and that the form is
	Hickory Cre 442 County: T62N T60N downstream o the water b	Hickory Creek 442 County: Daviess T62N R27W T60N R28W downstream: gment with assessment to the water body segment Telephone Number:



WBID#	442
Site #	1

Data Sheet B-Site Characterization

Date & Time:		9.26.07 17:46	; ;	Site Location Description (e.g. road crossing):				
Personnel:	Drew D). and Gilisa G.		Harbour Ro	oad			
Current Weatl	her Con	ditions: sunny		Facility Nar	me:	incorrect facil	lity	
Weather cond	litions fo	or the past 10 days:	1.09 inches	Permit Nun	nber:			
Drought cond	itions?: I	No drought ☑ ; Pha	se I □ ; Phase	e II □ ; Phas	e III □ ; PI	nase IV 🗆 ; Ur	nknown 🗆	
Site Location								
Location Coor	rdinates	(Universal Transver	rse Mercator P	rojection, In	Meters			
Site 01	Easting	g (UTM X):	Northing (UTI	M Y):		Horizontal Ac	ccuracy: Meters	
	041379	95	4431700				14	
Site 11	Easting	g (UTM X):	Northing (UTI	M <u>Y</u>):		Horizontal Ad	ccuracy: Meters	
	041370)2	4431622				13	
- . ,	•		•					
Photos:	1		 			1	T	
Photo ID#	F	Photo Purpose	Photo ID#:	Photo F	Purpose	Photo ID#:	Photo Purpose	
17	downst	ream	18	upstream				
Photo ID#	F	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Purpose	
Photo ID#	F	Photo Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose	
	<u></u>							
Uses Observ	ed:							
☐ Swimming	j	☐ Skin diving	☐ SCUBA d	living	☐ Tubin	g	☐ Water Skiing	
☐ Wind surfi	ng	☐ Kayaking	□ Boating		□ Wadir	ng	□ Rafting	
☐ Hunting		☐ Trapping	☐ Fishing	☑ None of the ab			☐ Other:	
Describe:			-		•			

WBID#	442
Site #	1

Data Sheet B- Site Characterization (Continued)

Surrounding Condition	ons:					
☐ City/County parks	☐ playgrounds	☐ MDC conser	rvation lands	☐ Urban areas	☐ Rural Reside	ential
☐ Campgrounds	☐ State parks	☐ National For		☐ Nature trails	☐ Stairs/walkwa	ays
☐ Boating accesses	☐ Fence	✓ No tresspass	s sign	☐ Steep Slopes	☐ Other:	
Comments:						
none						ļ
						I
Evidence of Human U	loo					
□ Roads	☐ Foot path/prints	☐ Dock/platforn		☐ Camping Sites	T Done swings	
☐ Roads ☐ RV/ATV Tracks	☐ Foot path/prints	☐ NPDES Discl		☐ Fishing Tackle		
comments/other:	☐ File pitring	I INL DEO DISSI	larye	LI FISHING TACKIO	LIVESTOCK WA	itering
COmments/outer.	trash along site					
	tradit along one					
Substrate:						
% Cobble	% Gravel 90	% Sand	10 % Silt	% Mud/Clay	% Bedro	ck
Aquatic Vegatation:						
100/						
40% grasses in shallow	<i>n</i> water					
<u></u>						
Water Characteristics	e.					
Odor:	Sewage □	☑ Musky	☐ Chemi	ical 🗆	l None □ (Other:
Odor.		L IVIGORY		.cai		
Color:	<u> </u>		□ Grav		Milkv 🔽 (
Color:	□ Clear	□Green	☐ Gray			Other:
Color: Bottom Deposit:	<u> </u>		j		brov	Other:

WBID#	_442_	
Site #	1	

Data Sheet B - Site Characterization (continued)

Channel Feature	Distance from	Width (m)	Length (m)	Median Depth (m)	Max Depth (m
	access location (m)		_ , ,	. , /	. ,
mments: (Please red	cord any additional comments h	ere.)			
ie					
ase verify that yo	u have completed all se	ections, checked	d all applicable	boxes, and that the f	orm is

Position: Field Team Leader

Organization: SES, Inc.

Field Data Sheets for Recreational Use Stream Surveys Data Sheet C - Field Survey Results

																		Disso	lved Ox	ygen		
	Waterbo	ody ID:	442		-	Site #:	1									Date:	9.26.07			Time:	17:46	
	Estimat	ed Chann	nel Incisi	on:	2.0	(m) (hei	ght betw	een low	bank wid	lth and w	/ater)					•		Oxygen:		-	(mg/L)	
	GPS Location - Easting (UTM X), Northing (UTM Y), Horizontal Accuracy Estimate (EPE / PDOP / FOM) 1 UTM X: 0413795 UTM Y: 4431700 +/- 14 (meters) Dissolved Oxygen: (% sat)																					
	11 UTM X: 0413702 UTM Y: 4431622 +/- 13 (meters) Specific Cond: (μS/cm)																					
	_	Stream			3.6			(meters)		_	Survey S	-	150		(meters)	Wa		•				
	(To determne Length of Reach) (20x average stream width) Water Temperature: 23.3 (°C) Field Staff: Drew Dodson and Gilisa Gould																					
	Transect Cross-Section																					
	0)1	0	2	0	13	0	4	0	5	0	6	0	7	0	8	0	9	1	0	1:	1
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.5	0.01	0.3	0.00	0.2	0.00	0.5	0.10	0.5	0.00	0.6	0.00	0.3	0.05	0.5	0.50	0.2	0.00	0.3	0.00	0.1	0.00
2	0.9	0.05	0.5	0.00	0.4	0.00	1.1	0.20	1.1	0.00	1.3	0.00	0.5	0.10	1.1	0.40	0.4	0.00	0.5	0.00	0.2	0.00
3	1.4	0.05	0.8	0.00	0.5	0.00	1.6	0.25	1.6	0.00	1.9	0.00	0.8	0.10	1.6	0.20	0.5	0.00	0.8	0.00	0.3	0.00
4	1.8	0.15	1.1	0.00	0.7	0.00	2.2	0.30	2.2	0.00	2.6	0.00	1.1	0.05	2.2	0.00	0.7	0.00	1.1	0.00	0.4	0.00
5	2.3			0.00			2.7	0.35	2.7	0.00	3.2		1.4	0.05	2.7	0.10	0.9		1.4	0.00	0.5	0.00
6	2.7	0.20		0.00			3.3	0.30	3.3	0.00	3.8		1.6	0.01	3.3	0.01	1.1	0.00	1.6	0.00	0.5	0.00
7	3.2	0.20	1.9 2.2	0.00	1.3		3.8	0.20	3.8	0.00	4.5 5.1	0.00	2.2	0.01	3.8 4.4	0.00	1.3	0.00	2.2	0.00	0.6	0.00
9	4.1	0.23	2.5	0.00			4.4		4.4		5.8		2.5	0.01	4.4	0.00	1.6		2.5	0.00	0.7	0.00
Right Bank	4.6	0.00	2.7	0.00	1.8	0.00	5.5	0.00	5.5	0.00	6.4	0.00	2.7	0.00	5.5	0.00	1.8	0.00	2.7	0.00	0.9	0.00
Feature Type		-				-		-											<u> </u>			
(riffle, run, or pool	rı	ın	rı	ın	rı	ın	ru	ın	ru	ın	rı	ın	ru	n								

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed:	Gilisa Gould	Date:	10/3/07	
		_		

WBID#	442
Site #	2

Data Sheet B-Site Characterization

Date & Time:		9.26.07 16:37		Site Location	on Descrip	tion (e.g. road	crossing):
Personnel:	D. Dod	son & G. Gould			202nd		
Current Weatl	ner Con	ditions: sunny		Facility Nar	me:	incorrect	
Weather cond	litions fo	r the past 10 days:	1.09 inches	Permit Nun	nber:		
Drought cond	itions?: I	No drought ☑ ; Pha	se I □ ; Phase	· II □ ; Phas	e III □ ; Pl	nase IV □ ; Ur	nknown 🗆
Site Location	1:						
		(Universal Transver	se Mercator P	rojection, In	Meters		
Site 01	Easting	g (UTM X):	Northing (UTI	M Y):		Horizontal Ac	curacy: Meters
		0413368		4431039			7.6
Site 11	Easting	g (UTM X):	Northing (UTI	M Y):		Horizontal Ac	curacy: Meters
	-	0413277		4430953			7.6
		0413211		4400300			1.0
Photos:							
Photo ID#	F	Photo Purpose	Photo ID#:	Photo F	Purpose	Photo ID#:	Photo Purpose
11		dam and road	14	downstrear	m	15	upstream
Photo ID#	F	Photo Purpose	Photo ID#	Photo Purpose		Photo ID#	Photo Purpose
Photo ID#	F	Photo Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpose
Uses Observ	ed:						
☐ Swimming	I	☐ Skin diving	☐ SCUBA d	iving	☐ Tubing	g	☐ Water Skiing
☐ Wind surfi	ng	☐ Kayaking	☐ Boating		□ Wadir	ng	□ Rafting
☐ Hunting		☐ Trapping	☐ Fishing			of the above	☐ Other:
Describe:			1 — 1 .59				1 = 0

WBID#	442
Site #	2

Data Sheet B- Site Characterization (Continued)

Commercial in a Committee	·					
Surrounding Condition		TE MDC con	·tiere londo	To the en erece	T D. wol D.	-:
☐ City/County parks	□ playgrounds		servation lands		□ Rural Re	
☐ Campgrounds	☐ State parks	☐ National F		☐ Nature trails	☐ Stairs/wa	alkways
☐ Boating accesses	☑ Fence	□ No tressp	ass sign	☐ Steep Slopes	✓ Other:	
Comments:						
crops						
Evidence of Human U	ll _{aa} ,					
				To Carraning Cita	ППРополь	·
☑ Roads	☐ Foot path/prints	☐ Dock/platf		☐ Camping Sites		
□ RV/ATV Tracks	☐ Fire pit/ring	☐ NPDES D	iscnarge	☐ Fishing Tackle	e ☐ Livestoc	k watering
comments/other:						
none						
i						
1						
<u> </u>						-
Substrate:						
% Cobble	% Gravel	% Sand	% Silt	% Mud/Clay	% Bedrock	
70 0000.0	/0 Olavo.	70 Garia	70 Cit	20	/0 D CG. CC.	
<u> </u>						
Aquatic Vegatation:						
					-	
none						
1101.15						
1						
<u> </u>						-
Water Characteristics	s:					
Odor:	☐ Sewage	☐ Musky	☐ Chem	nical	☑ None	☐ Other:
Color:	☐ Clear	□Green	☐ Gray		□ Milky	☑ Other:
0.5.5.1						brown
Bottom Deposit:	☐ Sludge	☐ Solids	☐ Fine :	sediments 5	☑ None	☐ Other:
Surface Deposit:	□ Oil	☐ Scum	☐ Foam		☑None	☐ Other:

WBID#_	442	
Site #	2	

	Data Sneet	B - Site Charac	terization (conti	nued)	
Additional Stream M	lorphology: (Record isolated	d nools or other feat	ures identified during	the survey that may suppor	t recreational uses)
Channel Feature	Distance from	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
	access location (m)	` '		. ,	. ,
Comments: (Please re	cord any additional comments h	ere.)			
	,	/			
none					
Please verify that yo complete.	ou have completed all se	ections, checke	d all applicable	boxes, and that the f	orm is
Surveyor's Signature:	Gilisa Gould		_Date of Survey:	9/26/2007	
Organization:	SES, Inc.		Position:	Field Team Leader	

Field Data Sheets for Recreational Use Stream Surveys Data Sheet C - Field Survey Results

																		Disso	lved Ox	xygen		
	Waterbo	ody ID:	442		_	Site #:	2									Date:	9.26.07			Time:	16:52	
	Estimate	ed Chann	el Incisi	on:	1.5	(m) (hei	ght betw	een low	bank wic	lth and w	rater)					•		Oxygen:		•	(mg/L)	
	01	cation - I UTM X	:	0413368	8	. 1	UTM Y:		4431039)	`	+/-		meters				Oxygen:			(% sat)	
	11	UTM X	:	0413277	7	. 1	UTM Y:		4430953	3		+/-	7.6	meters			Specifi	ic Cond:			(μS/cm)	
	_	e Stream ermne Le			2.8			(meters)		ength of 0x avera	-	Segment: n width)	150		(meters)	Wa		perature:			(°C)	
	Fiel	ld Staff:	Drew D	odson	and	Gilisa G	ould															
										Trai	isect Ci	ross-Sec	ction									
	0)1	0	2	0	13	0	4	0	5	0	16	0	7	0	8	0	9	1	0	1:	1
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.2	0.00	0.1	0.00	0.2	0.00	0.2	0.00	0.5	0.00	0.6	0.00	0.3	0.00	0.7	0.00	0.2	0.01	0.2	0.00	0.1	0.01
2	0.4	0.00	0.2	0.00	0.4	0.00	0.4	0.00	0.9	0.00	1.1	0.00	0.5	0.00	1.5	0.00	0.4	0.10	0.4	0.00	0.2	0.01
3	0.5	0.00	0.3	0.00	0.5	0.00	0.5	0.00	1.4	0.00	1.7	0.00	0.8	0.00	2.2	0.00	0.5	0.25	0.5	0.00	0.3	0.01
4	0.7	0.00	0.4	0.00	0.7	0.00	0.7	0.00	1.8	0.00	2.2	0.00	1.1	0.00	2.9	0.00	0.7	0.35	0.7	0.00	0.4	0.01
5	0.9	0.00	0.5	0.00	0.9	0.00	0.9	0.00	2.3	0.00	2.8	0.00	1.4	0.00	3.7	0.00	0.9	0.40	0.9	0.00	0.5	0.01
6	1.1	0.00	0.5	0.00	1.1	0.00	1.1	0.00	2.8	0.00	3.3	0.00	1.6	0.00	4.4	0.00	1.1	0.30	1.1	0.00	0.5	0.01
7	1.3	0.00	0.6	0.00	1.3	0.00	1.3	0.00	3.2	0.00	3.9	0.00	1.9	0.00	5.1	0.00	1.3	0.15	1.3	0.00	0.6	0.01
8	1.4	0.00	0.7	0.00	1.4	0.00	1.4	0.00	3.7	0.00	4.4	0.00	2.2	0.00	5.8	0.00	1.4	0.10	1.4	0.00	0.7	0.01
9	1.6	0.00	0.8	0.00	1.6	0.00	1.6	0.00	4.1	0.00	5.0	0.00	2.4	0.00	6.6	0.00	1.6	0.05	1.6	0.00	0.8	0.01
Right Bank	1.8	0.00	0.9	0.00	1.8	0.00	1.8	0.00	4.6	0.00	5.5	0.00	2.7	0.00	7.3	0.00	1.8	0.00	1.8	0.00	0.9	0.00
Feature Type (riffle, run, or pool	n	un	n	ın	rı	ın	n	ın	ru	ın	n	ın	ru	ın	ru	ın	n	ın	ru	ın	ru	n
,,, poor					- '		- 10								10		- 10				10	

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed:	Gilisa Gould	Date:	10/3/07	

WBID#	442
Site #	3

Data Sheet B-Site Characterization

			Data Sileet B	-Site Citara	acterizatio	nı				
Date & Time:	9/26/2007	15:27	7	Site Location	on Descrip	otion (e.g. road	crossing):			
Personnel:	D. Dodson	G. Gould	1	202nd						
Current Weatl	her Condition	ns: clear		Facility Na	me:	incorrect				
Weather cond	litions for the	e past 10 days:	1.09 inches	Permit Nur	nber:					
Drought condi	itions?: No d	lrought ☑ ; Phase I	□ ; Phase II □	; Phase III	□ ; Phase	IV □ ; Unknov	wn □			
Site Location										
		iversal Transverse N	Mercator Projec	ction, In Met	ers					
Site 01	Easting (UT	ГМ X):	Northing (UTN	M Y):		Horizontal Ac	curacy:	Meters		
	0412398		4430411					7.3		
Site 11	Easting (UT	ГМ <u>X</u>):	Northing (UTN	M <u>Y</u>):		Horizontal Ac	ccuracy:	Meters		
	0412328		4430445					6.4		
Photos:				<u> </u>		T	T			
Photo ID#	Ph	noto Purpose	Photo ID#:		Purpose	Photo ID#:	Photo Purpo	se		
9	Downstrear	n	10	Upstream						
Photo ID#	Ph	oto Purpose	Photo ID#	Photo I	Purpose	Photo ID#	Photo Purpo	200		
FIIOIO ID#	FIR	310 Purpose	FIIOIU ID#	FIIOLO	-uipose	FIIOIO ID#	Filoto Fuipo	se		
Photo ID#	Ph	oto Purpose	Photo ID#	Photo F	Purpose	Photo ID#	Photo Purpo	se		
	.1			,1		<u>, l</u>				
Uses Observ	ed:									
☐ Swimming		☐ Skin diving	☐ SCUBA di	iving	□ Tubin	ıg	☐ Water Skiing			
☐ Wind surfi	ng	☐ Kayaking	□ Boating		□ Wadir	ng	☐ Rafting			
☐ Hunting		☐ Trapping	☐ Fishing		☑ None	of the above	☐ Other:			
Describe:		1. 0	<u> </u>		<u>,1</u>		1			

WBID#	442
Site #	3

Data Sheet B- Site Characterization (Continued)

Surrounding Condition	ons:					
☐ City/County parks	☐ playgrounds		onservation lands		☐ Rural Re	sidential
☐ Campgrounds	☐ State parks	☐ Nationa	l Forests	☐ Nature trails	☐ Stairs/wa	alkways
☐ Boating accesses	☐ Fence	☐ No tress	spass sign	☐ Steep Slopes	o other:	
Comments: Crops						
Evidence of Human L	Use: □ Foot path/print	ts □ Dock/pla	-Hours	☐ Camping Site	I □ Bono su	ingo
☐ RV/ATV Tracks	☐ Fire pit/ring	□ NPDES		☐ Fishing Tackle		
comments/other:	None		Discharge	☐ FISHING LACKIN	E LIVESTOCE	Watering
Substrate:						
% Cobble	% Gravel 10	00 % Sand	% Silt	% Mud/Clay	% Bedrock	
Aquatic Vegatation:						
Only on banks						
Water Characteristics						
Odor:	☐ Sewage	☐ Musky	☐ Chem		☑ None	☐ Other:
Color:	☐ Clear	☑Green	☐ Gray	!	☐ Milky	Other:
D-44 Damaoiti		☐ Solids		sediments	✓ None	brown ☐ Other:
Bottom Deposit: Surface Deposit:	☐ Sludge ☐ Oil	□ Solias □ Scum	☐ Fine s		✓ None✓ None	☐ Other:

WBID# 442 Site # 3

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization (continued)

Additional Stream Morphology: (Record isolated pools or other features identified during the survey that may support recreational uses)

Channel Feature | Distance from | Width (m) | Length (m) | Median Depth (m) | Max Depth (m)

Channel Feature	Distance from access location (m)	Width (m)	Length (m)	Median Depth (m)	Max Depth (m)
Comments: (Please red	cord any additional comments h	nere.)			
None					
Please verify that yo complete.	u have completed all se	ections, checked	d all applicable l	ooxes, and that the f	form is
Surveyor's Signature:	Gilisa Gould		_Date of Survey:	9/26/2007	
Organization.	SES, Inc.		Position:	Field Team Leader	
Organization.			- 1 0018011.	c.a ream zeader	

Field Data Sheets for Recreational Use Stream Surveys Data Sheet C - Field Survey Results

																		Disso	lved Ox	ygen		
	Waterbo	ody ID:	442		•	Site #:	3									Date:	9/26/07			Time:	15:30	
	Estimate	ed Chann	el Incisio	on:	5.0	(m) (hei	ght betw	een low	bank wic	lth and w	rater)					•				N/A	(mg/L)	
		cation - H				-			-		(EPE / I	PDOP / F						'				
		UTM X:		0412398			UTM Y: UTM Y:		4430413 4430443			+/-		(meters)		Dı	ssolved (Oxygen:			(% sat)	
		•				-					G 6			150			Specifi	c Cond:			(µS/cm)	
		Stream Trimne Le			5.4			(meters)		ength of Ox avera				150	(meters)	Wa	ter Temp	erature:		N/A	(°C)	
	<u> </u>	1.0.00					1 0111	~									•	•				
	Fiel	d Staff:			Drew D	odson an	id Gilisa	Gould														
										Tra	nsect C	ross-Se	ction									
	0	1	0	2	0	3	0	4	0	15	0	6	(07	08	8	0	9	10	ð	11	1
Station	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)	Distance (m)	Depth (m)
Left Bank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0.7	0.00	0.4	0.00	0.4	0.00	0.6	0.00	0.6	0.00	0.6	0.00	0.6	0.00	0.5	0.00	0.5	0.00	0.5	0.00	0.5	0.00
2	1.5	0.00	0.7	0.00	0.7	0.00	1.3	0.00	1.1	0.00	1.1	0.00	1.1	0.00	1.1	0.00	0.9	0.00	0.9	0.00	0.9	0.00
3	2.2	0.00	1.1	0.00	1.1	0.00	1.9	0.00	1.7	0.00	1.7	0.00	1.7	0.00	1.6	0.00	1.4	0.00	1.4	0.00	1.4	0.00
4	2.9	0.00	1.5	0.00	1.5	0.00	2.6	0.00	2.2	0.00	2.2	0.00	2.2	0.00	2.2	0.00	1.8	0.00	1.8	0.00	1.8	0.00
5	3.7	0.00	1.9	0.00	1.9	0.00	3.2	0.00	2.8	0.00	2.8	0.00	2.8	0.00	2.7	0.00	2.3	0.00	2.3	0.00	2.3	0.00
6	4.4	0.00	2.2	0.00	2.2	0.00	3.8	0.00	3.3	0.00	3.3	0.00	3.3	0.00	3.3	0.00	2.8	0.00	2.8	0.00	2.8	0.00
7	5.1	0.00	2.6	0.00	2.6	0.00	4.5	0.00	3.9	0.00	3.9	0.00	3.9	0.00	3.8	0.00	3.2	0.00	3.2	0.00	3.2	0.00
8	5.8	0.00	3.0	0.00	3.0	0.00	5.1	0.00	4.4	0.00	4.4	0.00	4.4	0.00	4.4	0.00	3.7	0.00	3.7	0.00	3.7	0.00
9	6.6	0.00	3.3	0.00	3.3	0.00	5.8	0.00	5.0	0.00	5.0	0.00	5.0	0.00	4.9	0.00	4.1	0.00	4.1	0.00	4.1	0.00
Right Bank	7.3	0.00	3.7	0.00	3.7	0.00	6.4	0.00	5.5	0.00	5.5	0.00	5.5	0.00	5.5	0.00	4.6	0.00	4.6	0.00	4.6	0.00
Feature Type																						
(riffle, run, or pool	n	ın	ru	ın	rı	ın	rı	ın	n	ın	rı	ın	r	un	ru	n	ru	ın	ru	n	ru	n

Notes: Transects will be measured beginning on left descending bank (0 depth) and finishing on right descending bank (0 depth). This width is the wetted width

GPS locations corresponds to Transect 01 and 11. Transects ordered in upstream to downstream order.

Depth measurements taken at 10 equally spaced locations along transect (determine by dividing wetted width by ten)

Mark dry depth measurements as 0; record actual measurements to 0.01 meter unless depth is too deep to measure (then record as > 1)

All measurements to be taken to the nearest 0.01 meter.

Signed:	Gilisa Gould	Date:	10/3/07

WBID# 0442



Site# 1 Photo ID# 17, Downstream



Site# 2 Photo ID# 11, Dam and road



Site# 1 Photo ID# 18, Upstream



Site# 2 Photo ID# 14, Downstream

WBID# 0442



Site# 2 Photo ID# 15, Upstream



Site# 3 Photo ID# 10, Upstream



Site# 3 Photo ID# 9, Downstream